MIDMARK®

Installation Instructions

002-0592-00 Dimmer Switch Kit for Model 355 Exam Light

Kit Components

Part Number	Description	Qty
505-703076	Dimmer Switch	1
003-0918-00	Installation Instructions	1

Special Tools

Besides standard hand tools it will be necessary to have the following:

Description:	Volt-Ohm Meter (VOM)
Usage:	Measuring voltage on light circuit.
Availability:	Commercially Available
Type:	Digital display capable of reading in 120 VAC range

Installation

EQUIPMENT ALERT
Use of any other dimmer control and wiring diagram other than the one specified by Midmark can cause damage to light's transformer and may void the warranty.

DANGER
Assure electrical supply power is turned off and circuit breaker is tagged indicating circuit is being worked on before working on electrical controls or circuitry. Failure to comply could result in serious personal injury or death.

1. Mount dimmer control in desired location.

EQUIPMENT ALERT
Do ***not*** use wiring diagram supplied by manufacturer of dimmer switch to wire light. Use ***only*** the wiring diagram supplied by Midmark. Failure to comply can cause damage to the light's transformer and may void the warranty.

2. Wire the dimmer control as shown in Figure 1.

   A. Connect black lead from dimmer control to black lead of supply power.

   B. Connect yellow lead from dimmer control to black lead from line fuse (F1) in junction box.

   C. Connect green (ground) lead from supply power line to green/yellow (ground) lead of junction box.

   D. Connect white "neutral" lead from supply line to orange lead from transformer at the junction box.

DANGER
Assure that all electrical leads not being used are taped or have wire nuts installed to prevent shorting.

   E. Carefully tape or place a wire nut on red lead from dimmer control as it will not be used.

   F. Carefully tape or place wire nuts on the remaining red and yellow leads from the transformer at the junction box.

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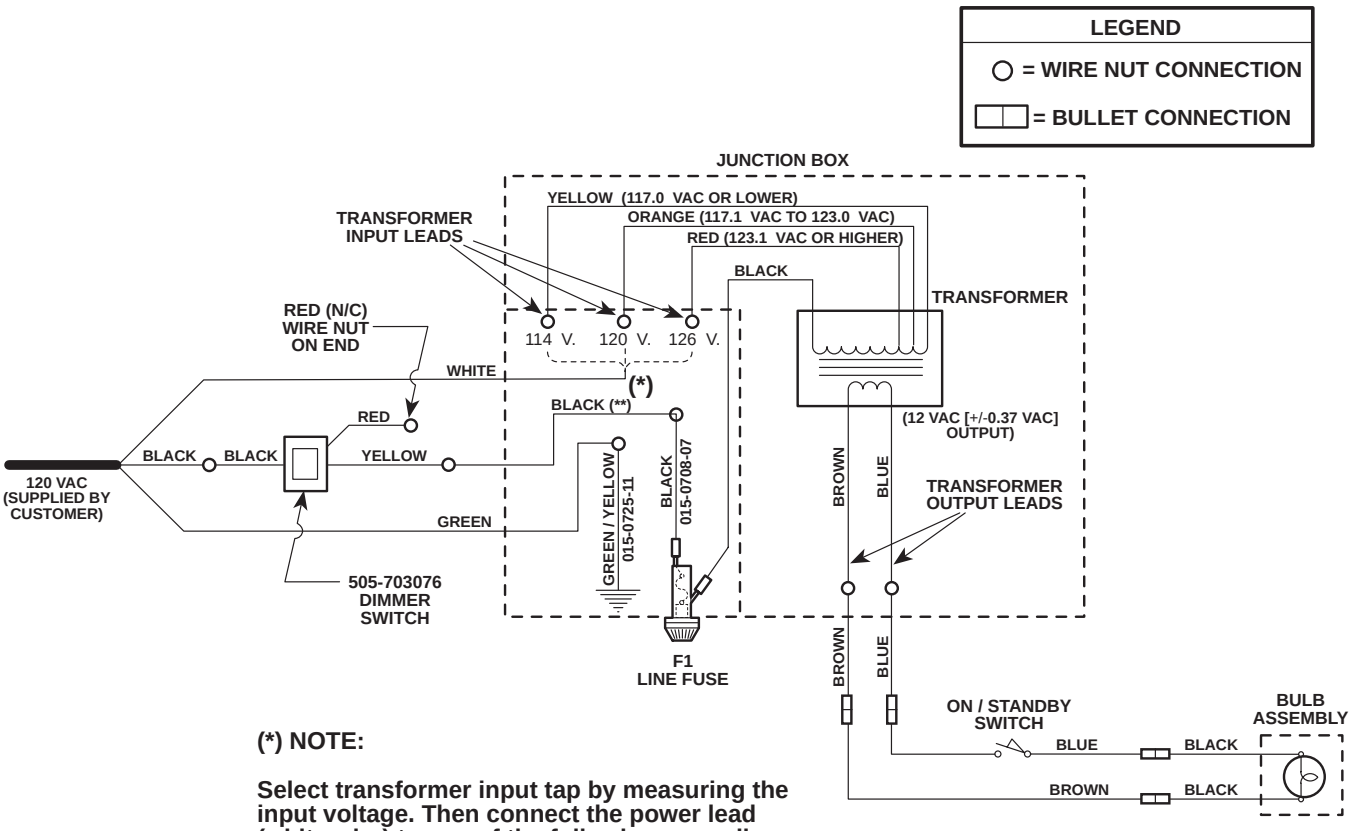

(*) NOTE:

Select transformer input tap by measuring the input voltage. Then connect the power lead (white wire) to one of the following according to the input voltage measured;

117.0 VAC or lower - Use the YELLOW lead
117.1 VAC to 123.0 VAC - Use the ORANGE lead
123.1 VAC or higher - Use the RED lead

(**) NOTE:

Supplied by electrician between junction box and dimmer location.

MA438200

FIGURE 1

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Measuring Input Voltage

DANGER
Use extreme care when working on light with the power on. Failure to do so could result in serious personal injury or death from electrical shock.

1. Turn ON supply power to light.
2. Turn knob shaft (1, Figure 2) on dimmer switch fully clockwise (CW).
3. Using a small screwdriver, turn dimmer switch trim pot (2) fully clockwise. Light is now at full intensity or brightness.
4. Turn knob shaft (1) on dimmer switch fully counter-clockwise (CCW) but *do not* turn off light.
5. Slowly turn trimpot (2) counter-clockwise (CCW) until just before light begins to flicker and go out. Dimmer is now adjusted.
6. Turn knob shaft (1) clockwise (CW) so that light is at full brightness.

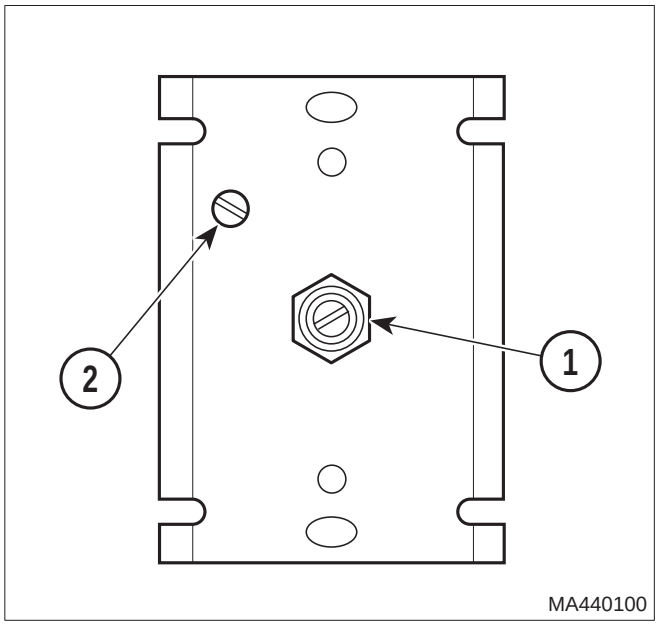

FIGURE 2

DANGER
Assure the electrical supply power is turned off and the circuit breaker is tagged indicating the circuit is being worked on before working on the electrical controls or circuitry. Failure to comply could result in serious personal injury or death.

7. Turn main power to light OFF at circuit breaker.
8. Disconnect yellow "hot" lead of dimmer control from black lead of fuse (F1) at light's junction box.
9. Disconnect white "neutral" lead from orange transformer lead at junction box.
10. Set volt-ohm meter (VOM) at an appropriate range to measure 120+ AC volts.
11. Connect meter leads to white "neutral" lead of supply and to yellow "hot" lead from dimmer control.

DANGER
Assure meter and supply leads are properly insulated to prevent shorting. Use extreme caution to prevent electrical shock when supply power is turned on.

12. Turn the supply power to ON and take a voltage reading and then *turn OFF* supply power.
13. Compare the voltage reading to Table 1. With supply voltage *OFF* connect white "neutral" lead to appropriate transformer lead (Refer to Table 1).

Voltage Reading (VAC)	Connect White "Neutral" to Transformer:
117.0 or lower	Yellow Lead
117.1 to 123.0	Orange Lead
123.1 or higher	Red Lead

TABLE 1

14. Connect the yellow lead from the dimmer control to the black lead from the fuse at the junction box.

DANGER
Assure that all leads not being used are taped or have wire nuts on them to prevent shorting to junction box.

15. Turn ON supply power and check operation.

NOTE
It may be necessary to re-adjust the trimpot on the dimmer switch per steps 1 thru 6.

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